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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-TNL-W.No.13-2016-17 Date: 13.12.2016

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shetty halli Sub Division, BBMP, Bangalore.
Agency : **Sri.T.N.Lakshman Gowda,** Contractor, Bangalore.
Name of the work : Improvements and Asphalting to Main & Cross Roads at Panchamukhi Ganesha Temple Road & Attilakkamma Temple Opp Roads in Ward no-13 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : EE/DD/WO/79/2016-17 Dated:26.11.2016
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 7 day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.12.2016	13.12.2016	8.111	351.2	15.61
2	06.12.2016	13.12.2016	8.126	367.2	16.32
3	06.12.2016	13.12.2016	8.137	349.2	15.52

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

AE-13

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

For Civil Expert

Authorised Signature

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Job No.: CECTC-TNL-W.No.13-2016-17 Date: 14.12.2016

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Sample ID	: Cement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.12.2016	14.12.2016	8.000	352.2	15.65
2	07.12.2016	14.12.2016	8.137	343.6	15.27
3	07.12.2016	14.12.2016	8.130	364.2	16.19

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Reference	: EE/DD/WO/79/2016-17 Dated:26.11.2016
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.12.2016	14.12.2016	8.133	370.1	16.45
2	07.12.2016	14.12.2016	8.122	363.2	16.14
3	07.12.2016	14.12.2016	8.100	353.4	15.71

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Job No.: CECTC-TNL-W.No.13-2016-17 Date : 08.12.2016

MORTH TABLE-400-11

Client : **Assistant Executive Engineer,** Shetty halli Sub Division, BBMP, Bangalore.

Agency : **Sri.T.N.Lakshman Gowda,** Contractor, Bangalore.

Name of Work : Improvements and Asphalting to Main & Cross Roads at Panchamukhi Ganesha Temple Road & Attilakkamma Temple Opp Roads in Ward no-13 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/79/2016-17 Dated:26.11.2016

Date of Testing : 08.12.2016

Material Type : Wet Mix Macadam

Sample Location : At Site Oven Dry Wt (gm): **13103**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	466	466	3.6	96.4	95-100
22.4	4366	4832	36.9	63.1	60-80
11.2	2312	7144	54.5	45.5	40-60
4.75	1974	9118	69.6	30.4	25-40
2.36	1854	10972	83.7	16.3	15-30
0.600	979	11951	91.2	8.8	8-22
0.075	842	12793	97.6	2.4	0-8

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Job No.: CECTC-TNL-W.No.13-2016-17 **Date:** 08.12.2016

Aggregate Impact Value
IS: 2386 Part IV

Client	**Assistant Executive Engineer,** Shetty halli Sub Division, BBMP, Bangalore.
Agency	**Sri.T.N.Lakshman Gowda,** Contractor, Bangalore.
Name of the Work	Improvements and Asphalting to Main & Cross Roads at Panchamukhi Ganesha Temple Road & Attilakkamma Temple Opp Roads in Ward no-13 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	EE/DD/WO/79/2016-17 Dated:26.11.2016
Location	At Site
Type of Mix	Wet Mix macadam
Date of Testing	08.12.2016

Sl No.	Details	Trial No. 1	2	3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	366	362	364	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	80	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	282	280	286	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.95	22.10	22.53	22.53

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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12/12/16
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